



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED24DMVFR35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000657-016
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] 44-48LED24DMVFR35
 [LUMINAIRE] Catalog Number: 44-48LED24DMVFR35
 [MORE] Surface/pendant mounted, white formed steel housing and LED tray, frosted plastic lens
 [MORE] enclosure with white steel endcaps. 128 white LEDs, four Universal Lighting Technologies
 [MORE] Everline M10CC835D32N2S boards with 32 LED each. One Universal Lighting
 [MORE] Technologies Everline D10CC55UNVTZ-C LED driver set at 417mA.
 [MORE] 120.0Vac, 60.0Hz, 0.20A, 24.0W, 0.998PF, 5.14%THD(i)
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 9.5m.
 [MORE] This IES file was extrapolated from 44-48LED57DMVFR30
 [DATE] The original file was created: Wednesday, October 12, 2016 2:57:52 PM
 [ISSUE DATE] Wednesday, October 12, 2016 2:57:52 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.11 m
Luminous Height	0.03 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6500	5711	5406
55	5659	4829	4633
65	4716	3957	4002
75	3700	3171	3437
85	2581	2526	2945

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1099.636	1099.636	1099.636	1099.636	1099.636
0.5	1094.704	1096.263	1103.220	1102.845	1097.269
1.0	1094.508	1096.098	1103.069	1102.635	1097.173
1.5	1094.339	1095.852	1102.745	1102.374	1096.985
2.0	1094.005	1095.527	1102.384	1101.945	1096.619
2.5	1093.447	1095.042	1101.926	1101.469	1096.204
3.0	1092.862	1094.425	1101.291	1100.907	1095.618
3.5	1092.167	1093.726	1100.592	1100.253	1094.924
4.0	1091.303	1092.903	1099.819	1099.435	1094.197
4.5	1090.385	1092.058	1098.878	1098.494	1093.337
5.0	1089.338	1090.983	1097.817	1097.474	1092.355
5.5	1088.227	1089.832	1096.638	1096.368	1091.267
6.0	1086.924	1088.625	1095.417	1095.102	1090.046
6.5	1085.622	1087.290	1094.009	1093.735	1088.803
7.0	1084.104	1085.855	1092.533	1092.254	1087.304
7.5	1082.472	1084.314	1090.988	1090.636	1085.754
8.0	1080.891	1082.609	1089.260	1088.872	1083.990
8.5	1079.035	1080.813	1087.400	1086.998	1082.139
9.0	1077.179	1078.971	1085.466	1085.069	1080.319
9.5	1075.186	1076.955	1083.437	1083.039	1078.262
10.0	1073.111	1074.816	1081.256	1080.781	1076.123
10.5	1070.848	1072.608	1079.007	1078.413	1073.819
11.0	1068.618	1070.323	1076.621	1076.059	1071.401
11.5	1066.081	1067.854	1074.066	1073.449	1068.832
12.0	1063.603	1065.304	1071.465	1070.711	1066.186
12.5	1060.961	1062.689	1068.778	1067.959	1063.461
13.0	1058.136	1059.891	1065.893	1065.038	1060.586
13.5	1055.307	1057.030	1063.009	1062.008	1057.611
14.0	1052.317	1054.041	1059.855	1058.804	1054.388
14.5	1049.236	1050.882	1056.664	1055.426	1051.042
15.0	1046.000	1047.778	1053.419	1052.025	1047.723
15.5	1042.732	1044.478	1050.027	1048.510	1044.259
16.0	1039.244	1041.045	1046.389	1044.716	1040.620
16.5	1035.697	1037.443	1042.755	1041.032	1036.854
17.0	1032.063	1033.796	1038.956	1037.091	1032.849
17.5	1028.333	1030.020	1035.126	1033.051	1028.955
18.0	1024.471	1026.139	1031.044	1028.886	1024.823
18.5	1020.480	1022.153	1026.921	1024.622	1020.585
19.0	1016.316	1018.053	1022.610	1020.165	1016.133
19.5	1012.207	1013.820	1018.227	1015.717	1011.658
20.0	1007.960	1009.501	1013.811	1010.996	1007.042
20.5	1003.568	1004.998	1009.126	1006.169	1002.237
21.0	998.951	1000.414	1004.436	1001.328	997.410
21.5	994.430	995.774	999.614	996.359	992.552
22.0	989.603	990.897	994.595	991.176	987.277
22.5	984.804	985.946	989.539	985.892	982.006
23.0	979.762	980.950	984.383	980.562	976.672
23.5	974.610	975.749	979.076	974.926	971.223
24.0	969.532	970.506	973.637	969.404	965.651
24.5	964.202	965.103	968.115	963.649	959.910
25.0	958.726	959.553	962.360	957.711	954.036
25.5	953.259	953.972	956.628	951.751	948.099
26.0	947.632	948.208	950.763	945.726	942.092
26.5	941.699	942.271	944.730	939.450	935.889

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CANDELA TABULATION - (Cont.)

27.0	935.853	936.333	938.559	933.101	929.577
27.5	929.856	930.263	932.379	926.702	923.155
28.0	923.580	923.982	925.970	920.129	916.627
28.5	917.468	917.692	919.516	913.450	910.050
29.0	911.064	911.233	913.007	906.672	903.344
29.5	904.528	904.596	906.269	899.815	896.414
30.0	898.032	898.028	899.523	892.876	889.526
30.5	891.363	891.272	892.611	885.746	882.528
31.0	884.406	884.287	885.549	878.482	875.301
31.5	877.504	877.307	878.473	871.251	868.079
32.0	870.501	870.200	871.324	863.901	860.783
32.5	863.247	862.950	863.933	856.386	853.287
33.0	856.016	855.632	856.569	848.871	845.781
33.5	848.643	848.286	849.086	841.233	838.175
34.0	841.078	840.630	841.448	833.408	830.510
34.5	833.513	833.033	833.828	825.673	822.748
35.0	825.811	825.326	826.094	817.798	814.922
35.5	817.866	817.395	818.140	809.734	806.868
36.0	809.904	809.433	810.191	801.644	798.906
36.5	801.991	801.539	802.297	793.612	790.970
37.0	793.695	793.324	794.134	785.302	782.715
37.5	785.549	785.133	785.970	777.088	774.670
38.0	777.198	776.892	777.765	768.787	766.465
38.5	768.733	768.445	769.400	760.299	758.109
39.0	760.230	760.048	761.108	751.962	749.836
39.5	751.596	751.550	752.688	743.510	741.439
40.0	742.714	742.920	744.031	734.811	732.955
40.5	734.029	734.345	735.561	726.405	724.599
41.0	725.180	725.697	727.054	717.839	716.189
41.5	716.056	716.902	718.296	709.168	707.609
42.0	707.138	708.162	709.675	700.529	699.185
42.5	698.179	699.368	700.972	691.912	690.692
43.0	688.964	690.390	692.036	683.195	682.075
43.5	679.872	681.522	683.351	674.497	673.688
44.0	670.675	672.618	674.442	665.821	665.172
44.5	661.341	663.531	665.432	656.981	656.409
45.0	652.135	654.544	656.610	648.364	647.985
45.5	642.948	645.530	647.756	639.725	639.588
46.0	633.417	636.343	638.720	630.963	630.972
46.5	624.074	627.287	629.820	622.333	622.538
47.0	614.754	618.228	620.833	613.721	614.164
47.5	605.278	608.953	611.824	604.990	605.726
48.0	595.853	599.907	602.860	596.406	597.325
48.5	586.505	590.788	593.832	587.831	588.987
49.0	576.965	581.573	584.777	579.182	580.563
49.5	567.572	572.504	575.836	570.758	572.413
50.0	558.224	563.376	566.914	562.320	564.299
50.5	548.584	554.124	557.868	553.736	555.994
51.0	539.282	545.101	548.968	545.416	547.999
51.5	529.971	536.023	540.096	537.129	539.959
52.0	520.463	526.885	531.127	528.810	531.868
52.5	511.152	517.789	522.278	520.577	523.969
53.0	501.804	508.766	513.451	512.363	516.089
53.5	492.333	499.693	504.515	504.163	508.217
54.0	483.132	490.733	495.839	496.168	500.515
54.5	473.862	481.770	487.118	488.197	492.836

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55.0	464.478	472.683	478.314	480.156	485.129
55.5	455.358	463.883	469.766	472.317	477.633
56.0	446.248	455.070	461.200	464.587	470.219
56.5	437.029	446.116	452.538	456.771	462.686
57.0	427.900	437.358	444.082	449.105	455.404
57.5	418.845	428.591	435.662	441.508	448.068
58.0	409.717	419.760	427.192	433.907	440.777
58.5	400.767	411.148	418.964	426.461	433.687
59.0	391.844	402.531	410.709	419.074	426.575
59.5	382.940	393.837	402.449	411.724	419.472
60.0	374.159	385.404	394.354	404.506	412.528
60.5	365.461	376.948	386.350	397.334	405.681
61.0	356.565	368.400	378.218	390.075	398.673
61.5	347.949	360.044	370.352	383.073	391.908
62.0	339.470	351.720	362.489	376.084	385.171
62.5	330.790	343.369	354.687	369.127	378.410
63.0	322.411	335.242	347.017	362.265	371.782
63.5	314.041	327.096	339.424	355.468	365.182
64.0	305.612	318.942	331.781	348.676	358.536
64.5	297.453	310.974	324.399	342.016	352.141
65.0	289.289	302.989	317.017	335.379	345.682
65.5	281.107	294.925	309.658	328.733	339.132
66.0	273.126	287.132	302.431	322.265	332.824
66.5	265.205	279.416	295.337	315.833	326.516
67.0	257.238	271.595	288.224	309.361	320.125
67.5	249.476	264.044	281.231	303.021	313.913
68.0	241.765	256.479	274.333	296.768	307.733
68.5	234.072	248.896	267.440	290.492	301.544
69.0	226.603	241.564	260.762	284.307	295.424
69.5	219.157	234.209	254.134	278.209	289.317
70.0	211.642	226.909	247.483	272.025	283.160
70.5	204.374	219.755	241.006	266.032	277.199
71.0	197.284	212.762	234.648	260.076	271.179
71.5	190.067	205.713	228.235	254.070	265.269
72.0	183.096	198.870	222.013	248.219	259.349
72.5	176.267	192.128	215.888	242.428	253.531
73.0	169.406	185.546	209.759	236.586	247.689
73.5	162.787	178.927	203.803	230.918	241.925
74.0	156.127	172.441	197.851	225.186	236.161
74.5	149.659	166.055	192.019	219.568	230.456
75.0	143.324	159.889	186.328	214.037	224.875
75.5	137.107	153.768	180.692	208.584	219.303
76.0	130.891	147.689	175.088	203.067	213.713
76.5	124.852	141.811	169.634	197.741	208.314
77.0	119.001	136.056	164.295	192.476	202.888
77.5	113.123	130.356	158.961	187.182	197.508
78.0	107.450	124.784	153.746	181.981	192.220
78.5	101.796	119.326	148.640	176.921	186.949
79.0	96.261	113.914	143.534	171.801	181.766
79.5	90.972	108.740	138.652	166.837	176.660
80.0	85.679	103.611	133.793	161.941	171.668
80.5	80.440	98.578	128.994	157.018	166.631
81.0	75.463	93.669	124.372	152.306	161.800
81.5	70.535	88.892	119.788	147.634	156.954
82.0	65.653	84.148	115.258	142.949	152.169
82.5	60.918	79.554	110.847	138.405	147.465

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83.0	56.319	75.083	106.545	133.912	142.880
83.5	51.767	70.645	102.221	129.483	138.314
84.0	47.292	66.357	98.107	125.149	133.898
84.5	42.949	62.147	93.993	120.917	129.519
85.0	38.602	57.960	89.939	116.661	125.136
85.5	34.497	53.961	85.990	112.588	120.962
86.0	30.333	49.975	82.118	108.497	116.766
86.5	26.224	46.007	78.210	104.447	112.593
87.0	22.215	42.135	74.407	100.507	108.648
87.5	18.211	38.323	70.736	96.777	104.882
88.0	14.257	34.493	67.066	93.349	101.421
88.5	10.317	30.754	63.733	90.460	98.505
89.0	6.372	27.193	61.073	87.946	96.009
89.5	0.000	24.272	58.957	85.743	93.742
90.0	0.000	22.553	57.233	83.814	91.731
90.5	0.000	21.639	55.935	82.241	90.058
91.0	0.000	21.529	55.177	81.048	88.787
91.5	0.000	21.525	54.916	80.367	87.941
92.0	0.000	21.447	54.765	79.929	87.343
92.5	0.000	21.356	54.582	79.526	86.785
93.0	0.000	21.351	54.399	79.133	86.319
93.5	0.000	21.296	54.239	78.777	85.862
94.0	0.000	21.241	54.052	78.397	85.427
94.5	0.000	21.173	53.924	78.050	85.016
95.0	0.000	21.118	53.705	77.702	84.564
95.5	0.000	21.040	53.581	77.355	84.148
96.0	0.000	21.017	53.389	77.030	83.786
96.5	0.000	20.940	53.193	76.679	83.402
97.0	0.000	20.889	53.014	76.441	83.078
97.5	0.000	20.807	52.836	76.103	82.731
98.0	0.000	20.716	52.662	75.805	82.392
98.5	0.000	20.684	52.434	75.472	82.036
99.0	0.000	20.620	52.274	75.179	81.739
99.5	0.000	20.588	52.027	74.919	81.419
100.0	0.000	20.538	51.826	74.585	81.099
100.5	0.000	20.464	51.639	74.320	80.797
101.0	0.000	20.355	51.428	74.032	80.472
101.5	0.000	20.314	51.218	73.730	80.184
102.0	0.000	20.240	50.994	73.424	79.887
102.5	0.000	20.154	50.779	73.141	79.622
103.0	0.000	20.117	50.560	72.802	79.298
103.5	0.000	20.058	50.304	72.501	78.973
104.0	0.000	19.952	50.089	72.181	78.667
104.5	0.000	19.866	49.828	71.847	78.320
105.0	0.000	19.792	49.614	71.490	78.032
105.5	0.000	19.706	49.335	71.175	77.693
106.0	0.000	19.614	49.047	70.800	77.300
106.5	0.000	19.536	48.823	70.494	76.985
107.0	0.000	19.454	48.530	70.064	76.615
107.5	0.000	19.372	48.256	69.662	76.189
108.0	0.000	19.262	47.986	69.315	75.792
108.5	0.000	19.184	47.680	68.890	75.390
109.0	0.000	19.084	47.365	68.478	75.010
109.5	0.000	18.961	47.040	68.030	74.562
110.0	0.000	18.823	46.743	67.578	74.082
110.5	0.000	18.723	46.414	67.153	73.634

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111.0	0.000	18.609	46.085	66.705	73.113
111.5	0.000	18.499	45.811	66.252	72.674
112.0	0.000	18.316	45.404	65.736	72.162
112.5	0.000	18.174	45.084	65.251	71.664
113.0	0.000	18.065	44.704	64.753	71.125
113.5	0.000	17.950	44.366	64.250	70.567
114.0	0.000	17.799	43.973	63.743	70.014
114.5	0.000	17.671	43.580	63.185	69.465
115.0	0.000	17.489	43.223	62.659	68.903
115.5	0.000	17.329	42.835	62.092	68.332
116.0	0.000	17.237	42.423	61.544	67.729
116.5	0.000	17.073	42.026	60.941	67.134
117.0	0.000	16.913	41.624	60.365	66.503
117.5	0.000	16.739	41.240	59.825	65.896
118.0	0.000	16.606	40.796	59.240	65.228
118.5	0.000	16.433	40.335	58.664	64.593
119.0	0.000	16.250	39.937	58.061	63.880
119.5	0.000	16.117	39.535	57.462	63.235
120.0	0.000	15.944	39.077	56.827	62.545
120.5	0.000	15.829	38.666	56.219	61.882
121.0	0.000	15.683	38.246	55.583	61.137
121.5	0.000	15.537	37.871	54.898	60.465
122.0	0.000	15.381	37.450	54.281	59.752
122.5	0.000	15.231	36.975	53.595	59.062
123.0	0.000	15.084	36.536	52.973	58.344
123.5	0.000	14.943	36.088	52.320	57.640
124.0	0.000	14.810	35.640	51.671	56.946
124.5	0.000	14.677	35.206	51.022	56.205
125.0	0.000	14.540	34.753	50.391	55.501
125.5	0.000	14.385	34.337	49.746	54.765
126.0	0.000	14.284	33.885	49.088	54.061
126.5	0.000	14.161	33.464	48.448	53.362
127.0	0.000	13.974	33.021	47.772	52.603
127.5	0.000	13.878	32.573	47.136	51.913
128.0	0.000	13.718	32.157	46.478	51.195
128.5	0.000	13.567	31.723	45.843	50.478
129.0	0.000	13.439	31.298	45.180	49.746
129.5	0.000	13.311	30.877	44.586	49.029
130.0	0.000	13.169	30.402	43.918	48.270
130.5	0.000	12.995	30.018	43.297	47.570
131.0	0.000	12.849	29.561	42.634	46.853
131.5	0.000	12.726	29.131	42.012	46.195
132.0	0.000	12.589	28.733	41.368	45.445
132.5	0.000	12.419	28.290	40.741	44.736
133.0	0.000	12.278	27.869	40.111	44.069
133.5	0.000	12.099	27.467	39.434	43.365
134.0	0.000	11.971	27.037	38.844	42.629
134.5	0.000	11.816	26.612	38.182	41.893
135.0	0.000	11.665	26.219	37.555	41.189
135.5	0.000	11.469	25.776	36.947	40.499
136.0	0.000	11.368	25.337	36.326	39.781
136.5	0.000	11.217	24.939	35.704	39.119
137.0	0.000	11.030	24.501	35.055	38.406
137.5	0.000	10.856	24.098	34.447	37.715
138.0	0.000	10.682	23.696	33.793	37.011
138.5	0.000	10.527	23.276	33.208	36.376

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CANDELA TABULATION - (Cont.)

139.0	0.000	10.340	22.850	32.582	35.631
139.5	0.000	10.175	22.485	31.988	35.000
140.0	0.000	10.006	22.037	31.403	34.319
140.5	0.000	9.832	21.662	30.804	33.647
141.0	0.000	9.622	21.260	30.178	33.003
141.5	0.000	9.480	20.867	29.620	32.367
142.0	0.000	9.293	20.460	29.035	31.718
142.5	0.000	9.096	20.039	28.459	31.097
143.0	0.000	8.891	19.674	27.906	30.434
143.5	0.000	8.671	19.271	27.321	29.798
144.0	0.000	8.520	18.878	26.772	29.213
144.5	0.000	8.319	18.513	26.224	28.592
145.0	0.000	8.123	18.133	25.639	27.993
145.5	0.000	7.912	17.781	25.109	27.353
146.0	0.000	7.730	17.402	24.565	26.795
146.5	0.000	7.551	17.000	24.034	26.174
147.0	0.000	7.327	16.648	23.495	25.593
147.5	0.000	7.144	16.268	22.933	24.999
148.0	0.000	6.971	15.912	22.416	24.441
148.5	0.000	6.742	15.569	21.904	23.893
149.0	0.000	6.578	15.189	21.406	23.312
149.5	0.000	6.399	14.824	20.903	22.704
150.0	0.000	6.185	14.472	20.391	22.146
150.5	0.000	5.993	14.111	19.907	21.621
151.0	0.000	5.823	13.804	19.372	21.081
151.5	0.000	5.636	13.439	18.897	20.570
152.0	0.000	5.449	13.096	18.412	20.048
152.5	0.000	5.293	12.762	17.946	19.486
153.0	0.000	5.124	12.442	17.448	18.979
153.5	0.000	4.982	12.090	17.004	18.535
154.0	0.000	4.777	11.752	16.547	17.969
154.5	0.000	4.603	11.414	16.072	17.507
155.0	0.000	4.466	11.071	15.651	16.990
155.5	0.000	4.269	10.765	15.180	16.510
156.0	0.000	4.128	10.426	14.760	16.030
156.5	0.000	3.968	10.102	14.321	15.560
157.0	0.000	3.826	9.732	13.900	15.121
157.5	0.000	3.666	9.407	13.512	14.673
158.0	0.000	3.565	9.078	13.096	14.234
158.5	0.000	3.373	8.712	12.707	13.800
159.0	0.000	3.259	8.383	12.305	13.356
159.5	0.000	3.140	8.082	11.944	12.931
160.0	0.000	2.967	7.752	11.510	12.511
160.5	0.000	2.839	7.442	11.121	12.104
161.0	0.000	0.000	7.131	10.737	11.674
161.5	0.000	0.000	6.802	10.335	11.254
162.0	0.000	0.000	6.550	9.974	10.861
162.5	0.000	0.000	6.239	9.608	10.436
163.0	0.000	0.000	5.965	9.224	10.010
163.5	0.000	0.000	5.682	8.849	9.622
164.0	0.000	0.000	5.348	8.502	9.247
164.5	0.000	0.000	5.124	8.127	8.849
165.0	0.000	0.000	4.818	7.775	8.461
165.5	0.000	0.000	4.548	7.428	8.050
166.0	0.000	0.000	4.269	7.035	7.643
166.5	0.000	0.000	4.050	6.655	7.300

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	3.762	6.322	6.884
167.5	0.000	0.000	3.497	5.951	6.541
168.0	0.000	0.000	3.250	5.595	6.125
168.5	0.000	0.000	3.031	5.220	5.778
169.0	0.000	0.000	2.756	4.882	5.412
169.5	0.000	0.000	0.000	4.562	5.042
170.0	0.000	0.000	0.000	4.210	4.713
170.5	0.000	0.000	0.000	3.849	4.292
171.0	0.000	0.000	0.000	3.488	3.936
171.5	0.000	0.000	0.000	3.172	3.570
172.0	0.000	0.000	0.000	2.820	3.223
172.5	0.000	0.000	0.000	0.000	2.884
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	399.99	N.A.	12.90
0-30	841.34	N.A.	27.20
0-40	1354.98	N.A.	43.70
0-60	2284.78	N.A.	73.70
0-80	2798.57	N.A.	90.30
0-90	2894.61	N.A.	93.40
10-90	2790.67	N.A.	90.10
20-40	954.99	N.A.	30.80
20-50	1458.07	N.A.	47.10
40-70	1245.73	N.A.	40.20
60-80	513.79	N.A.	16.60
70-80	197.86	N.A.	6.40
80-90	96.04	N.A.	3.10
90-110	100.80	N.A.	3.30
90-120	139.91	N.A.	4.50
90-130	168.57	N.A.	5.40
90-150	197.72	N.A.	6.40
90-180	203.75	N.A.	6.60
110-180	102.95	N.A.	3.30
0-180	3098.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.94
10-20	296.05
20-30	441.35
30-40	513.64
40-50	503.08
50-60	426.72
60-70	315.93
70-80	197.86
80-90	96.04
90-100	53.29
100-110	47.51
110-120	39.12
120-130	28.66
130-140	18.68
140-150	10.47
150-160	4.70
160-170	1.27
170-180	0.05

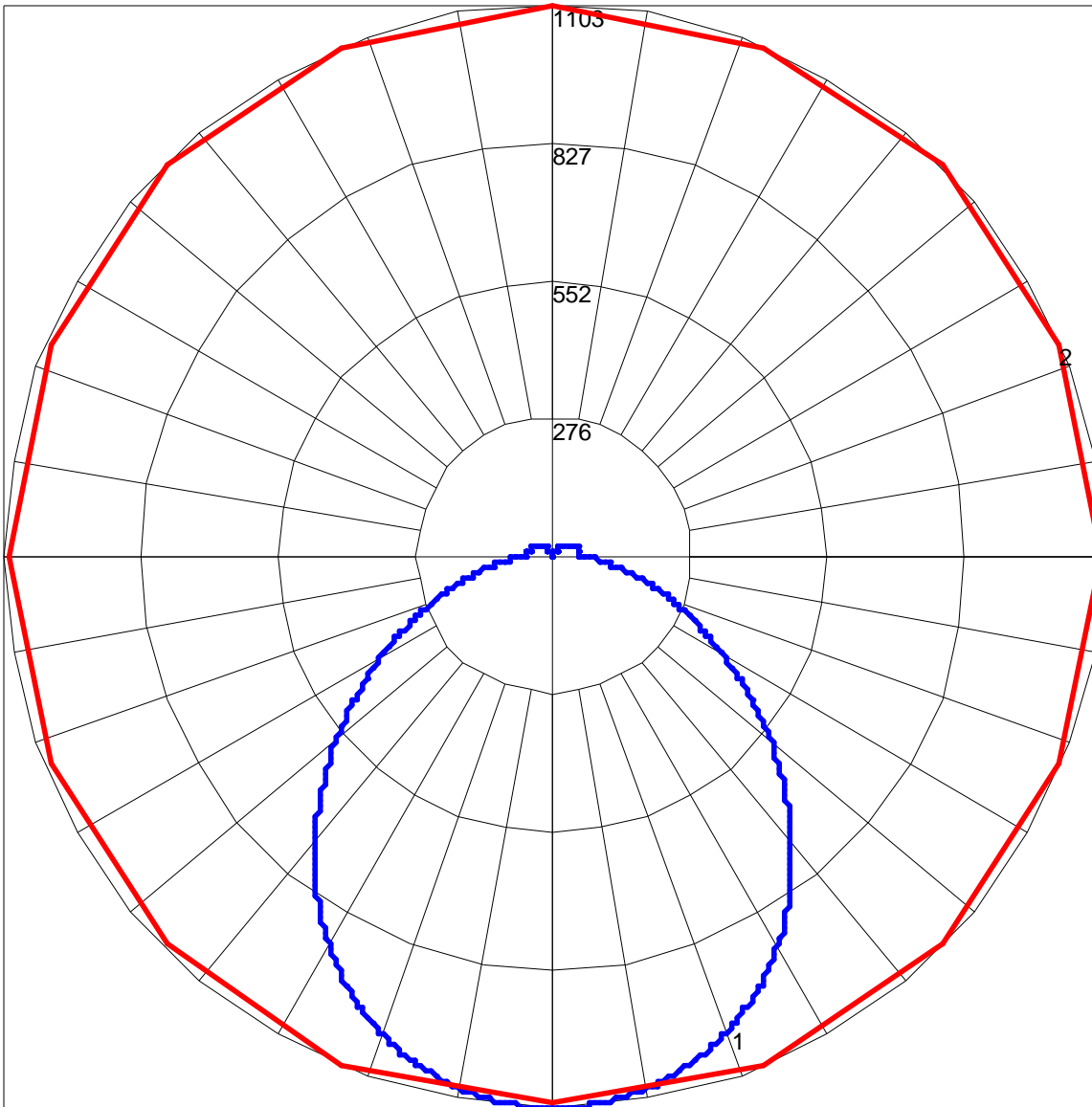
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	78
2	97	89	82	77	94	87	81	75	82	77	73	78	74	70	74	70	67	65
3	89	79	70	64	86	76	69	63	73	66	61	69	64	59	66	61	57	55
4	82	70	61	55	79	68	60	54	65	58	52	62	56	51	59	54	50	47
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41
6	69	56	48	41	67	55	47	41	53	45	40	50	44	39	48	43	38	36
7	65	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	41	35	31	29
9	56	43	35	29	54	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	27	51	39	32	27	38	31	26	36	30	26	35	29	25	24

POLAR GRAPH



Maximum Candela = 1103.22 Located At Horizontal Angle = 45, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)